

Tessellation 1 (O)

"This Really Grinds My Gearloose"

Suite: Tessellation Party!

by Arya Akhavan (October 2012)

Angles for R.I. = 1.540

37 + 12 girdles = 49 facets

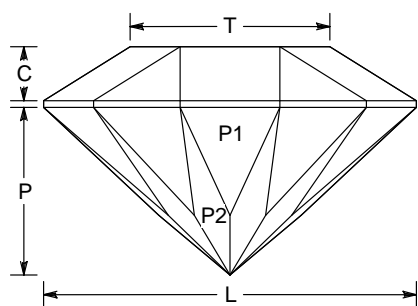
2-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.536 U/W = 0.464

P/W = 0.450 C/W = 0.145

Vol./W³ = 0.205



PAVILION

P1	43.14°	96-08-16-24-32-40-48-56-64-72-80-88	Cut to centerpoint.
G1	90.00°	96-08-16-24-32-40-48-56-64-72-80-88	Set stone size (level girdle)
P2	41.00°	04-12-20-28-36-44-52-60-68-76-84-92	Meet P1, G1

CROWN

C1	31.98°	08-24-40-56-72-88	Set girdle width.
C2	28.40°	96-16-32-48-64-80	Cut level girdle.
T	0.00°	Table	Meet C1, C2

This is an O-type pattern from this suite, meaning there is a hexagonal table surrounded with squares. Think of it, and all the rest of the designs in this suite, as being cousins to the checkerboards. The design has decent light return, and can be cut in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes.

Suggested size = 6-8 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Works in Progress\Tessellations\Tessellation 1 (O) - This Really Grinds